

In view of that concept, as well as with reference to the claims provided hereinbelow, the following new title is proposed.

"FREQUENCY CONVERTER HAVING SINUSOIDAL INPUT-REFERENCED OUTPUT".

IN THE CLAIMS

Please cancel claims 118, 120-122, 124-125 and 127-129 in their entirety and substitute the following new claims in their place.

130. An arrangement comprising:

rectifier means connected with an ordinary electric utility power line by way of a pair of AC input terminals and operative to provide a DC voltage at a DC output; and

inverter circuit connected with said DC output and operative to provide a sinusoidal output voltage of relatively high frequency across a pair of AC output terminals, one of said AC output terminals being electrically connected with one of said AC input terminals, said inverter circuit comprising an L-C tank circuit having a capacitor and an inductor, said tank circuit being resonant at or near said relatively high frequency, one terminal of said capacitor being connected with one of said AC output terminals.

131. In an inverter adapted to be powered from a DC source having a center-tap and to provide an essentially squarewave voltage output, said DC source being connected with and powered from an ordinary electric utility power line by way of a pair of supply conductors, said center-tap being electrically connected with one of said supply conductors, said inverter comprising a pair of alternately conducting switching transistors connected by way of a mid-point in series across said DC source, said squarewave voltage output being provided between said center-tap and said mid-point, the improvement comprising:

a series-connected combination of an inductor and a capacitor connected between said center-tap and said mid-point, said series-connected combination: i) having a natural resonance frequency that is equal to or near the fundamental frequency of said squarewave voltage output, ii) and being operative to provide a substantially sinusoidal voltage across a pair of output terminals.